

## ECD OPERATION

**Operation Caution:** For safety, ensure flame arrestor is secure and in proper working order prior to lighting flame. It is recommended to follow API RP-12N (latest edition) for testing the flame arrestor and accessories.

### ECD Start-up

- 1) Make sure the ARC Igniter battery has a full charge and all the terminal connections are tight with no loose wiring. Keep the manual valves that control the pilot and main burner gas lines closed until ready to ignite.
- 2) Open ARC enclosure box and turn the power switch to the "On" position. The LCD will display the "Firmware Series" and then state "Igniting Pilot".
- 3) With the ARC displaying "Igniting Pilot", slowly open pilot isolation valve to light pilot.
- 4) Once pilot flame is established, slowly open the Main Burner isolation manual valve.
- 5) Close thief hatches on tanks and tank blow down valves to maintain a closed vent gas system to the ECD.

**Note:** It is recommended that the entire stock tank vent gas system be a closed system without any system gas leaks. All vent gases generated in the stock tanks should be directed to the ECD for emission destruction. If stock tank unloading is performed without a vapor equalizing loop back to the stock tank, a vacuum breaker should be installed in the vent gas line to prevent stock tank implosion. A vacuum breaker is nothing more than a check valve permitting draw of ambient air into the vent system during the truck loading operation. In the absence of a vacuum breaker, the thief hatch on the unloaded stock tank will need to be opened for the duration of the truck loading operation.

### ECD Shutdown

- 1) Open thief hatches and blow down valves on stock tanks.
- 2) Close Main Burner Isolation Valve at ECD and Lock-out/Tag-out (LO/TO).
- 3) Close Pilot Isolation Manual Valve at ECD and LO/TO.
- 4) Turn ARC Ignition System "Off".
- 5) Open ECD access cover (all models except ECD-3-48HV-90) or the access door (Model ECD-3-48HV-90) and ventilate for minimum of 15 minutes or per Company Policy.